

Armstrong

Forensic Laboratory, Inc.

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January 14, 2019

Ms. Libby Kastens
State Farm Insurance Company
P.O. Box 106169
Atlanta, GA 30348

Re: Forensic Examination/Fire Debris Evaluation	Requested By: Mr. Brian Haag
Insured: Grant, Kevin and Dayna	Company: Whitmore Fire Consultants, Inc.
Location: 105 East River Street	Requestor File: 18-M557
Woodville, WI	Carrier: FedEx
Policy: [REDACTED] 3M94	Date of Loss: 12/29/18

LABORATORY REPORT: B9FR0254-1

Two debris samples were received on January 11, 2019, for laboratory evaluation. The evidence is from an investigation as indicated above. Armstrong was requested to evaluate the debris for the presence and identification of ignitable liquids.

Sample Descriptions:

Laboratory ID	Client ID	Client Description	Container/Laboratory Description
B9-0254A-001A	1	Electrical items from tupperware obtained from waitress stand	Gallon can of metal and plastic
B9-0254A-002A	2	Charred fire debris obtained from blue tarp in dining room	Gallon can of fire debris, paper, glass, and wood

Methods of Analyses:

Fire debris is examined in accordance with ASTM Methods E1412 and E1618. Recovery of ignitable liquids is by charcoal absorption with analysis by high-resolution capillary column Gas Chromatography-Flame Ionization (GC-FID) and Gas Chromatography/Mass Spectrometry (GC/MS) with computer comparison to the EPA/NIST Database.

Data Analysis and Interpretations:

- B9-0254A-001A and B9-0254A-002A contain a refined petroleum fuel mixture identified as gasoline. Fresh gasoline typically ranges from nC_4 - nC_{12} . Weathered, or concentrated, fuels show a loss of the more volatile components and can extend into the medium (nC_8 - nC_{13}) and heavy (nC_8 - nC_{20}) ranges. The recoveries from the debris are identified as gasoline.

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Results and Conclusions:

B9-0254A-001A, electrical items from tupperware obtained from waitress stand, contains gasoline.

B9-0254A-002A, charred fire debris obtained from blue tarp in dining room, contains gasoline.

Evidence Disposition:

Evidence has been placed into secure storage at Armstrong Forensic Laboratory, Inc., for final disposition in accordance with Client's instructions.

Armstrong Forensic Laboratory, Inc. (Armstrong) is accredited through ANAB and the Texas Forensic Science Commission for criminal casework in the disciplines of Controlled Substances; Toxicology in the category of Blood Alcohol; and Trace Evidence in the categories of Paint, Fibers & Textiles, Fire Debris, and General Physical & Chemical Analysis. Unless noted otherwise, all work performed on this case was in accordance with these requirements and Armstrong's standard operating procedures.

Respectfully submitted,
ARMSTRONG FORENSIC LABORATORY, INC.

Original signed by:

Kelly L. Wouters, PhD
Laboratory Director
Fellow, American Board of Criminalistics
ANAB, Certificate ALI-037-T

cc: Mr. Brian Haag, Prior Lake, MN
Mr. Jeffrey Blomseth, Prior Lake, MN
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